

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05693

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04B7/06 H04L25/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 098088 A (ERICSSON INC ;HUI DENNIS (US); KHAYRALLAH ALI (US)) 5 December 2002 (2002-12-05) page 5, line 25 -page 6, line 13; figure 2 page 8, line 3 -page 9, line 4 page 13, line 10 - line 16 page 14, line 17 -page 15, line 5 figures 3,4	1,8
X	EP 1 128 575 A (ERICSSON TELEFON AB L M) 29 August 2001 (2001-08-29) page 6, paragraph 45 -page 7, paragraph 48 figure 1 --- -/-	1,8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

24 March 2004

Date of mailing of the International search report

01/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Cabañas Prieto, A.M.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05693

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 452 981 B1 (POLLACK MICHAEL A ET AL) 17 September 2002 (2002-09-17) column 6, line 6 - line 22; figure 1 column 8, line 17 - line 27 column 30, line 19 -column 33, line 5 -----	1,8
X	WO 02 103925 A (LOPES LUIS ;O'NEIL RORIE (GB); MOTOROLA INC (US)) 27 December 2002 (2002-12-27) page 11 figures 1,2 -----	1,8
X	EP 0 674 455 A (NIPPON TELEGRAPH & TELEPHONE) 27 September 1995 (1995-09-27) abstract; figure 2 column 4 -column 6 -----	1,8

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05693

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02098088	A	05-12-2002	US 2003016637 A1 WO 02098088 A1	23-01-2003 05-12-2002
EP 1128575	A	29-08-2001	EP 1128575 A1	29-08-2001
US 6452981	B1	17-09-2002	US 6144711 A US 2003072382 A1 US 6377631 B1 AU 4238697 A CA 2264170 A1 CA 2302289 A1 DE 69725995 D1 EP 0920738 A1 EP 0931388 A2 JP 2001505723 T WO 9809385 A2 WO 9809381 A1 WO 9809395 A1	07-11-2000 17-04-2003 23-04-2002 19-03-1998 05-03-1998 05-03-1998 11-12-2003 09-06-1999 28-07-1999 24-04-2001 05-03-1998 05-03-1998 05-03-1998
WO 02103925	A	27-12-2002	GB 2376601 A WO 02103925 A1	18-12-2002 27-12-2002
EP 0674455	A	27-09-1995	DE 69432013 D1 DE 69432013 T2 EP 0674455 A1 US 6483866 B1 WO 9510924 A1 JP 2691255 B2	20-02-2003 09-10-2003 27-09-1995 19-11-2002 20-04-1995 17-12-1997